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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/597,150	07/13/2006	Daniel Willem Elisabeth Schobben	NL040025	6814
	7590 08/31/201 LLECTUAL PROPER	EXAMINER		
P.O. BOX 3001		FAULK, DEVONA E		
BRIARCLIFF MANOR, NY 10510			ART UNIT	PAPER NUMBER
			2614	
			MAIL DATE	DELIVERY MODE
			08/31/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provision of 37 CFR 1.736(s). In no event however, may a reply the linkey find of the state of the communication.  **SHORTENED STATUTORY PERIOD TO COMMUNICATION.**  Failine to reply within the set or contended period for engly will by state to be communication.  Failine to reply within the set or contended period for engly will by state to become MaRANDATE (38 U.S. C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely fitted, may reduce any centred patient term adjustment. Set ST CFR 1.74(n).  **Status**  1) A Responsive to communication(s) filled on 23 June 2010.  2a) This action is FINAL.  2b) This action is FINAL.  2b) This action is find.  2b) This action is find.  2c) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1.4-8.10-12 and 14-20 is/are pending in the application.  4a) Of the above claim(s) is/are allowed.  5) Claim(s) 1.4-8.10-12 and 14-20 is/are rejected.  7) Claim(s) is/are allowed.  6) Claim(s) 1.4-8.10-12 and 14-20 is/are rejected.  7) Claim(s) is/are objected to by the Examiner.  Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on 7/13/06 is/are: a) accepted or b) objected to by the Examiner.  Application Papers  9) The application is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a) (d) or (f).  a) All b) Associated and the priority documents have been received in Application No.  2 Certified copies of the priority documents have been received		Application No.	Applicant(s)					
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A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Interest (1) (1) (MCN) His free the mailing state of this communication If No period for reply is specified above, the maximum abulatory period will apply and will expire the provide the reply late of this communication Falure to reply within the set or extended period for reply will. by abulation period will apply and will expire the provide of reply is period above, the maximum abulatory period will apply and will expire the provide (3) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1								
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10) ☐ The drawing(s) filed on 7/13/06 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☐ Notice of References Cited (PTO-892)  2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  5) ☐ Notice of Informal Patent Application	9) The specification is objected to by the Examiner.							
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## **DETAILED ACTION**

## Response to Arguments

- 1. Applicant's arguments, regarding the newly recited claim language, filed 6/23/10 have been fully considered but they are not persuasive.
- 2. The applicant has asserts that prior art Arnold fails to teach that the source is coupled to the surface. The examiner disagrees. As noted in the previous rejection, Arnold discloses that is also possible for a source to be resting on a hard, sound-reflecting surface and radiating hemispherical waves. The examiner asserts that if a source is resting on a hard, sound-reflecting surface, it is coupled. The applicants discloses of the coupling means

"Such means may e.g. be suction means or magnets. Suction means will effectively increase the force by means with which the device sticks to the table (enhancing its apparent weight), while magnets will enhance its apparent weight when put on a steel surface. Both may be present.".

So the examiner interprets coupling as just being attached or connected to in some way and the examiner asserts that Arnold reads on that language.

The applicant further asserts that Arnold fails to disclose whether what is being measure is the sound eliminating from the source itself or the combined source and the surface. The examiner disagrees. Arnold asserts that it is the volume from the source that is being measured and additionally teaches of what the difference in sound pressure is in free space compared to if the source is resting on a hard surface (column 7, lines 30-61).

The examiner is modifying the rejection only due to the newly recited claim language.

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Claims 2,3,9 and 13 are cancelled.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1,4-8,10-12,14-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Klayman (US 5,784,468) in view of Taylor (US 4,778,027) in further view of Arnold et al. (US 6,154,549).

Regarding claim 1, Klayman discloses a device having a first and a second sound-generating means (Figures 1 and 2; speaker assemblies 100 and 140), and an input for a stereo signal (Figure 1; column 4, lines 29-40) comprising left and right sound signals (Figures 1 and 2), and wherein the device has an interconnected first and second part comprising the first and second sound generating means (Figures 1 and 2; each speaker assembly includes a first and second sound generating means), respectively, and wherein the device has means for sending a first signal which is a composite of the left and right sound signals, to the first sound-generating means of the first part), and a second signal, which is a different composite of the left and right sound signals, to the second sound-generating means of the second part (Figures 1 and 2; column 4, lines 44-49-63).

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Klayman teaches of coupling sound waves (Figures 1-4). Klayman fails to teach of coupling sound waves generated by the first sound-generating means into a surface when placed upon said surface. Taylor teaches of coupling sound waves generated by a first sound-generating means into a surface when placed upon said surface (Figures 8 and 9; column 3, lines 60-column 4, line 20; column 4, line 61- column 5, line 2). It would have been obvious to modify Klayman so that the first sound generating means couples sound waves into a surface when placed upon said surface for the benefit of providing a better "feel" of the sound or music to the user.

Klayman as modified fails to disclose wherein responsive to the co-vibrating of the first sound-generating means and the surface, a sound volume produced by said first part and said surface at a distance of one meter from said first part is increased by at least 6 dB as compared to the same part when used in air and not coupled to the surface.

Arnold discloses a sound volume produced by said first part and said surface at a distance of one meter from said first part is increased by at least 6 dB as compared to the same part when used in air and not coupled to the surface (column 7, lines 30-61; Arnold teaches that is also possible for a source to be resting on a hard, sound-reflecting surface and radiating hemispherical waves. Under those conditions, the sound intensity level L.sub.I and the sound pressure L.sub.p at a distance of one meter are 8 dB less than the sound power level, once again diminishing by 6 dB each time the distance is doubled. In actual practice, few sound sources radiate sound equally in all directions, and there are often reflecting surfaces nearby that destroy the symmetry of

the spherical or hemispherical waves and that it is the volume from the source that is being measured and additionally teaches of what the difference in sound pressure is in free space compared to if the source is resting on a hard surface ).

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Based on Arnold's teaching, the examiner asserts that it is a matter of design choice as to how device is positioned and thus the sound volume that will be produced.

Therefore, it would have been obvious to modify Klayman so that the sound volume is produced as claimed for the benefit of producing a specific desired output.

Regarding claim 6, Klayman as modified discloses wherein the first part comprises a coupling means (Klayman, Figures 1 and 2).

Regarding claim 4, the examiner asserts that using orthogonal signals for driving sound generating means in a sound system is well known in the art. It would have been obvious to modify Klayman as modified so that the means for sending are arranged in such a way that the signals are orthogonal signals so that a better sound field can be created.

Regarding claim 5, Klayman as modified discloses wherein the means for sending are arranged in such a way that the first signal comprises a difference signal of left and right stereo signals and the second signal comprises a sum signal of the left and right stereo signals (See Klayman as applied above to the rejection of claim 1)...

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Regarding claims 7-8, Klayman as modified teaches of the speakers mounted in a speaker assembly (Klayman, Figures 1 and 2). The various coupling techniques of a suction element, a magnet and reversible coupling means are all well known in the art. To use one type of coupling means over another is just a matter of substitution. It would have been obvious to modify Klayman as modified so that the coupling means is a suction element, a magnet or reversible coupling for the benefit or using an alternative method of coupling.

Regarding claim 10, the examiner takes official notice that piezoelectric speakers are well known in the art. It would have been obvious to modify Klayman as modified so that the speakers are piezoelectric type speakers for the benefit of having a speaker system more resistant to overload.

All elements of claims 11,12,17,18,20 are comprehended by the rejection of claims 1,4 and 5 (The examiner asserts that the L+R signal reads on the dominant language and the L-R signal reads on the residual language; See Klayman Figure 2).

Regarding claim 16, the examiner asserts that a sound generating means that is positioned on a swivel is well known in the art. It would have been obvious to modify Klayman as modified to have a sound generating means positioned on a swivel for the benefit of providing flexibility.

All elements of claims 14 and 15 are comprehended by the rejection of claim 1.

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Regarding claim 19, the examiner asserts that reverse coupling is well known in the art. It would have been obvious to modify Klayman as modified to use reversible coupling for the benefit of having flexible coupling.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DEVONA E. FAULK whose telephone number is (571)272-7515. The examiner can normally be reached on 8 am - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on 571-272-7848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Devona E. Faulk/ Primary Examiner, Art Unit 2614\